$$X: axos que tieven que pasar.$$
 $42+X = (7+X)+(5+X)$ 
 $42+X = 7+X+5+X$ 
 $42+X=2x+12$ 
 $2x-X=42-12$ 
 $X=30$ 

(1)

$$\begin{array}{c} (2) \quad X - y = 120 \\ y = \frac{x}{5} \\ \\ \text{Sustituinos eu} \\ \text{la primera ecvación} \end{array} \qquad \begin{array}{c} X - \frac{x}{5} = 120 \\ \\ \hline 5 \\ \\ \end{array} ; \begin{array}{c} 5x \\ \hline 5 \\ \\ \hline \end{array} ; \begin{array}{c} x = 600 \\ \\ \hline \end{array} ; \\ \begin{array}{c} 4x = 600 \\ \\ \hline \end{array} ; \begin{array}{c} x = 150 \\ \\ \hline \end{array}$$

 $y = \frac{x}{5}$ ;  $y = \frac{150}{5}$ ; y = 30

$$\frac{3}{5}x - \frac{x}{2} = 50$$
 $\frac{6x}{10} - \frac{5x}{10} = \frac{500}{10}$ 
 $10 - \frac{10}{10} = \frac{500}{10}$ 

(4) X: edad de Luis X+5: edad de Mercedes (X+5)+3 = X+8: edad de Ervesto

$$x+(x+5)+(x+8) = 58$$
  
 $x+x+5+x+8 = 58$   
 $3x = 58-5-8$   
 $3x = 45$   
 $x = \frac{45}{3}$ ;  $x = 15$ 

$$x + (x+3) = 27$$
  
 $2x+3 = 27$   
 $2x = 27-3$   
 $2x = 24$   
 $x = \frac{24}{2}$   
 $x = 12$ 

$$\frac{x - \frac{4}{7}x = 78}{\frac{7x}{7} - \frac{4x}{7} = \frac{546}{7}$$

$$7x-4x = 546$$
 $3x = 546$ 
 $x = \frac{546}{3}$ 
 $x = 182$